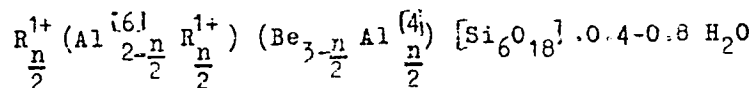


Discussions . On the Position of Alkali Metals in the SOV/7-59-3-10/13
Structure of Beryl

substantiating his opinion, the author calculated 60 beryl analyses, the first 5 of which are given in a table. Thus the formula for beryl would have to be written down as follows:



There are 1 table and 5 Soviet references.

ASSOCIATION: Institut mineralogii, geokhimii i kristalloghimii redkikh elementov AN SSSR, Moskva (Institute of Mineralogy, Geochemistry, and Crystallochemistry of Rare Elements, AS USSR, Moscow)

SUBMITTED: September 8, 1958

Card 2/2

~~BEUS, Aleksey Aleksandrovich~~; VERSTAK, G.V., red.izd-va; BYKOVA, V.V.,
tekhn.red.

[Beryllium, its ores and how to search for them] Berillii, ego
rudy i kak ikh iskat'. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry
po geol. i okhrane neдр, 1960. 26 p. (MIRA 14:1)
(Beryllium) (Prospecting)

IVANOV, V.V.; VOLGIN, V.Yu.; KRASNOV, A.A.; LIZUNOV, N.V.; VLASOV, K.A.,
glavnyy red.; BEUS, A.A., doktor geol.-mineral.nauk, otv.red.;
SIMKIN, S.M., red.izd-va; SIMKINA, G.S., tekhn.red.

[Thallium; its geochemistry, mineralogy, genetic types of its
deposits, and its geochemical characteristics] Telli; osnovnye
cherty geokhimii i mineralogii, geneticheskie tipy mestorozhdenii
i geokhimicheskie provintsii. Moskva, Izd-vo Akad.nauk SSSR, 1960.
154 p. (MIRA 13:7)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh
elementov (for Ivanov, Volgin, Krasnov, Lizunov).
(Thallium)

PHASE I BOOK EXPLOITATION

SOV/4762

Beus, Aleksey Aleksandrovich

Geokhimiya berilliya i geneticheskiye tipy berilliyevykh mestorozhdeniy (Geochemistry of Beryllium and Genetic Types of Beryllium Deposits) Moscow, Izd-vo AN SSSR, 1960. 328 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mineralogii, geokhimii i kristalloghimii redkikh elementov.

Resp. Ed.: K.A. Vlasov, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: L.S. Tarasov; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for researchers in geology and geochemistry.

COVERAGE: The author presents the results of his research on beryllium and analyzes the work of Soviet and other scientists in this field. On the basis of the data, he creates a more complete picture of the behavior of beryllium in the formation processes of rocks and mineral deposits. Contributions of Soviet scientists M.V. Kuz'menko, Ye.I. Semenov, V.S. Sobolev, A.S. Povarennykh, N.V. Belov and his student Yu.A. Pyatenko, and those of L.L. Shilin of the IGM

Card 1/4

BEUS, A.A.

Concerning the article of L.N.Rossovskii, A.N.Shostatskii, and L.S.
Zil'berfarb" Certain theses in K.A.Vlasov's works and their role in
exploring and evaluating rare-metal bearing pegmatites." Izv. AN
SSSR. Ser. geol. 25 no.4:115-117 Ap '60. (MIRA 13:11)
(Pegmatites) (Rossovskii, L.N.)
(Shostatskii, A.N.) (Zil'berfarb, L.S.)

BEUS, A.A. ; SITNIN, A.A.

Granites containing microlites are a new promising type of deposits of tantalum. Razved. i okh. nedr 26 no.10:1-4 3 '60.

(MIRA 13:11)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR.

(Granite) (Tantalum) (Microlite)

BEUS, A. A.

"Geochemistry of greisen-deposits and regularities in the
distribution of rare elements in them"

Paper submitted at the International Geological Congress XXI Session -
1960 (Reports of Soviet Geologists) Problem No. 1, 15-24 Aug. 61

S/007/61/000/003/001/004
B107/B206

AUTHORS: Beus, A. A., Sitnin, A. A.

TITLE: Geochemistry of tantalum and niobium in the hydrothermal-pneumatolytic process

PERIODICAL: Geokhimiya, no. 3, 1961, 209-214

TEXT: The geochemical behavior of tantalum and niobium, specially in pneumatolytic-hydrothermal deposits, has not been sufficiently clarified yet. A. Ye. Fersman stated (Ref. 1: A. Ye. Fersman, Geokhimiya (Geochemistry), v. 4, Izd. AN SSSR, M., 1939) that niobium and tantalum did not enter into pneumatolysis, which opinion is shared by A. I. Ginzburg. Contrary to that, the authors come to the following conclusions based on their own investigations especially in Eastern Siberia: Tantalum and Niobium are characteristic elements of high temperature-, postmagmatic processes which are connected with granites. Their geochemical history can be followed from the state of early sodium metasomatism (early albitization) over greisenization up to the formation of high temperature quartz veins. Owing to the peculiarities of postmagmatic metasomatism two types of granites can be distinguished with

Card 1/3

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S/007/61/000/003/001/004
B107/B206

Geochemistry of ...

reference to the behavior of niobium and tantalum. Albitized granites of the alkali series contain columbite and pyrochlorite; tantalum plays a small part, the ratio Ta_2O_5/Nb_2O_5 is 0.1-0.2. Columbite, tantalocolumbite and microlite appear in albitized and greisenized granites of the acid and ultra-acid series, the tantalum concentration rises in individual cases to the 10-20 fold of the mean value for granites (0.0004% according to Rankama-Sahama), the ratio Ta/Nb rises to 0.25-0.50. Behavior and differentiation of niobium and tantalum are most strongly pronounced by the pneumatolytic-hydrothermal process in the greisen state. This is explained by different mobility and stability of the acidic complexes, specially of the fluorine complexes, which are present in the greisen solutions. The high tantalum concentration in the apical parts of albitized and greisenized granites, which is 40-100 times higher than the tantalum content in normal granites, develops mainly thereby. The behavior of tantalum and niobium during post-magmatic metasomatism of granites has a lot in common with the behavior during metasomatism of granite pegmatites. However, tantalum and niobium are concentrated to a greater degree during metasomatism of granites, while the concentration is generally about equal in both cases. M. V. Kuz'menko

Card 2/3

Geochemistry of ...

S/007/61/000/003/001/004
B107/B206

is mentioned. There are 1 figure and 17 references: 15 Soviet-bloc and 2 non-Soviet-bloc. The two references to English language publications read as follows: V. M. Goldschmidt. Geochemistry, Oxford, 1954; K. Ranakama and T. Sahama. Geochemistry, Chikago 1950.

ASSOCIATION: Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR, Moskva (Institute of Mineralogy, Geochemistry, and Crystallochemistry of Rare Elements AS USSR, Moscow)

SUBMITTED: September 20, 1960



Card 3/3

BEUS, A.A., doktor geol.-miner. nauk; NECHAYEVA, I.A.; POLKOPIN,
F.D.; PREMYSLER, K.M.; CHUDINOV, Yu.V.; SITNIN, A.A.

[Albitized and greisenized granites, a new prospective
type of rare element deposits] Al'bitizirovannye i
greizenizirovannye granity - novyi perspektivnyi tip
nestorozhdenii redkikh elementov. Moskva, 1961. 33 p.
(MIKA 17:8)

1. Akademiya nauk SSSR. Institut mineralogii, geokhimii
i kristallokhimii redkikh elementov. 2. Institut minera-
logii, geokhimii i kristallokhimii redkikh elementov
AN SSSR (for Beus, Sitnin). 3. Geologorazvedochnyy trest No.1
Ministerstva geologii i okhrany neдр SSSR (for Nechayeva,
Polkopin, Premysler).

S/081/62/000/001/011/067
B156/B101

AUTHOR: Beus, A. A.

TITLE: Variations, in ore-fields, in the hydrothermal-pneumatolytic deposits of rare elements

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1962, 123-124, abstract 1056 (Sov. geologiya, no. 4, 1961, 114-126)

TEXT: Geochemical investigation of a considerable number of deposits in the USSR has enabled four groups of metasomatic rare element ores to be isolated in granitoids, and in the various varieties of enclosing rocks. Particularly high concentrations of rare elements form during two types of metasomatic process, caused by the action of high-temperature post-magmatic emanations and solutions: albitization (Na-metasomatoses) and greisenization (the process of high-temperature acid leaching, accomplished by F-K-metasomatoses). Li and Rb are concentrated in zinnwaldite-containing albitized granites and greisens. Nb and Ta (in columbite, pyrochlore, microlite and hetchetolite), Zr (in malacon and zirkelite) and Be (in beryl) are concentrated in

Card 1/2

Variations, in ore-fields, in the ...

S/081/62/000/001/011/067
B156/B101

albitized and greisenized granites. Beryllium mineralization is closely associated with greisens of various compositions and quartz-greisen veins. Metasomatic rocks containing fluorite, among carbonate rocks, have typically high contents of Be (chrysoberyl, phenacite, etc.), Li (Li-margarite) and Sn (cassiterite). [Abstracter's note: Complete translation.]

Card 2/2

BEUS, A.A.

Beryllium distribution in granites. Geokhimiia no.5:415-419 '61.
(MIRA 14:5)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry
of Rare Elements, Academy of Sciences U.S.S.R., Moscow.
(Beryllium)
(Granite)

BEUS, A.A.; KALITA, A.P.

Recent data on so-called wiikite. Dokl. AN SSSR 141 no.3:705-708
N '61. (MIRA 14:11)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh
elementov AN SSSR. Predstavleno akademikom D.I. Shcherbakovym.
(Wiikite)

BEUS, A. A.

METALLOGICAL ASSOCIATION, INTER-
NATIONAL - Third General Meeting -
Washington, D.C. 17-21 Apr 62

BAGUNOV, Z. P. Minerals and Mineral
A. Ye. Furman, Moscow. "Minerals and their
classification"

BEUS, Alexander A., Institute of Mineralogy,
University and Crystallography of Leningrad
Elizaveta, Academy of Sciences USSR /USSR/
position. "Association of metamorphic
minerals in certain interlayered bodies of
leucocratic granites"

CHUDOV, Z. P., Institute of Geology
of Mineral Deposits, Petrography, Mineralogy,
and Geochemistry, Academy of Sciences USSR
/USSR/ position. "The Jekelton
of the Eastern Sayan deposits"

DOBERTOV, E. A., Novosibirsk - "Genesis of
DOLGOV, V. A., Novosibirsk - "Genesis of
pegmatites based on the study of fluid
inclusions"

GENIN, Alexander D., Institute of Geology of
Mineral Deposits, Petrography, Mineralogy
and Geochemistry, Academy of Sciences USSR
"New data on minerals of the Pt Group from
the Olenok deposits of the USSR"

GOVOROV, A. A., Institute of Geology and
Geophysics, Siberian Department, Academy of
Sciences USSR, Novosibirsk - "Research on the
sediments of blanch of 'Laybakh'"

ORLOV, Dmitry P., Prof., Leningrad
Mining Institute /USSR/ position

ORLOV, Dmitry P., Institute of Geology,
Academy of Sciences USSR, Leningrad -
"Changes in pyroxene composition during the
volcanic process as exemplified in Georgia"

IVANOV, A. V., Prof., Kazan'sk
KASHKAT, M. M., Academician Secretary of the
Department of Geology and Mineral Sciences,
Academy of Sciences Azerbaijan SSR, Baku -
"Mineralogy and origin of the Pyrites types of
deposits"

KURAKOV, Alexander A., Prof., Leningrad State
University, Chair of Geochemistry /USSR/ position.
PENGULOV, N. V., Dr., Central Scientific Research
Mining Researching Institute of Pure, Applied, and
Practical Metals, Moscow /USSR/ position

SHARAFUTDINOV, Ilham I., Leningrad Mining
Institute /USSR/ position. "New crystalline
chemical forms, as indicators of the productivity
of the formation of minerals"

BOGOLYUBOV, E. V., Novosibirsk - "Paragenetic types of
granites in eclogite and hyperite"

BOGOLYUBOV, Vladimir G., Institute of Geology and
Geophysics, Siberian Department, Academy of
Sciences USSR, Novosibirsk, /USSR/ position
researches on the formation of the /USSR/ and
HETEROGENEOUS, Viktor V., Novosibirsk - "The
temperature content of minerals in the
deposits of the Leningrad Mining Institute
/USSR/ position. "Data results of the develop-
ment of metamorphic systems in the history of
the earth"

DORFMAN, Moisey Davydovich; ~~BEUS, A.A.~~, doktor geol.-mineral. nauk,
otv. red.; SHENGER, I.A., red. izd-va; ZENDEL', M.Ye.,
tekhn. red.

[Mineralogy of pegmatites and weathering zones in ijolite-
urtites of Yukspor Mountain in the Khibiny massif] Mineralogiia
pegmatitov i zon vyvetrivanii v iolite-urtitakh gory Iukspor
Khibinskogo massiva. Moskva, Izd-vo Akad. nauk SSSR, 1962. 167 p.
(MIRA 15:4)

(Yukspor Mountain--Pegmatites)
(Yukspor Mountain--Weathering)

BEUS, Aleksey Aleksandrovich; SMIRNOVA, Z.A., red. izd-va;
SHMAKOVA, T.M., tekhn. red.

[Where and how to search for beryllium] Berillii, gde i kak
iskat'. Izd. 2. Moskva, Gosgeoltekhizdat, 1962. 27 p.
(MIRA 16:7)

(Beryllium)

BEUS, A.A.; ZALASHKOVA, N.Ye.

Processes of high-temperature postigneous metasomatism in
granitoids. Izv.AN SSSR.Ser.geol. 27 no.4:13-31 Ap '62.
(MIRA 15:4)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh
elementov, Moskva.

(Metasomatism)

BEUS, A.A., doktor geol.-miner. nauk; SEVEROV, E.A.; SITNIN, A.A.;
SUBBOTIN, K.D.; SERDYUCHENKO, D.P., doktor geol.-miner. nauk,
otv. red.; GRISHINA, T.B., red.izd-va; POLYAKOVA, T.V., tekhn.
red.

[Albitized and greisenized granites (apogamites)] Al'bitiziro-
vannye i greizenizirovannye granity (apogranity). Moskva, Izd-
vo Akad. nauk SSSR, 1962. 195 p. (MIRA 16:2)

1. Laboratoriya geokhimii metasomaticheskikh protsessov, svya-
zannykh s granitoidami Instituta mineralogii, geokhimii i kri-
stallokhimii redkikh elementov (for Beus, Severov, Sitnin,
Subbotin).

(Granite) (Trace elements)

A.A. BEUS (USSR)

"Geochemical analysis of phenomena of the high-temperature post-magmatic metasomatose in granitoids."

Report presented at the Conference on Chemistry of the Earth's Crust,
Moscow, 14-19 Mar 63.

BEUS, A.A.; SOBOLEV, B.P.; DIKOV, Yu.P.

Geochemical history of beryllium in the processes of high-
temperature postmagmatic mineral formations. Geokhimiia no.3:
297-304. Mr '63. (MIRA 16:9)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry
of Rare Elements, Institute of Crystallography, Academy of
Sciences, U.S.S.R., Moscow.
(Beryllium) (Ore deposits) (Geochemistry)

BEUS, A.A.

V.I.Vernadskii and the problems of Soviet geochemistry. Sov.geol. 6 no.3:
18-24 Mr '63. (MIRA 16:3)

1. Institut mineralogii, geokhimii i kristalloghimii redkikh elementov.
(Geochemistry)

VINOGRADOV, A.P., akademik, otv. red.; BARANOV, V.I., red.; BARSUKOV, V.L., red.; BEUS, A.A., red.; VALYASHKO, M.G., red.; GERASIMOVSKIY, V.I., red.; KORZHINSKIY, D.S., red.; RONOV, A.B., red.; TUGARINOV, A.I., red.; KHITAROV, N.I., red.; SHCHERBINA, V.V., red.; TARASOV, L.S., red. izd-va; DOROKHINA, I.N., tekhn. red.

[Chemistry of the earth's crust] Khimiia zemnoi kory; trudy. Moskva, Izd-vo Akad.nauk. Vol.1. 1963. 430 p. (MIRA 16:3)

1. Geokhimicheskaya konferentsiya, posvyashchennaya stoletiyu so dnya rozhdeniya akademika V.I.Vernadskogo, Moscow, 1963.
(Geochemistry)

BELYAYEVSKIY, N.A., red.; ALI-ZADE, A.A., red.; ALIYEV, M.M., red.;
BAKIROV, A.A., red.; BELOUSOV, V.V., red.; BEUS, A.A., red.;
BOGDANOV, A.A., red.; BORISOV, A.A., red.; BRENNER, M.M.,
red.; DYUKOV, A.I., red.; YERSHOV, A.D., red.; ZARIDZE, G.M.,
red.; KALUGIN, A.S., red.; KOSOV, B.M., red.; KOPTEV-
DVORNIKOV, V.S., red.; KOTLYAR, V.N., red.; LUGOV, S.F., red.;
MAGAK'YAN, I.G., red.; MARINOV, N.A., red.; MARKOVSKIY, A.P.,
red.; MALINOVSKIY, F.M., red.; PUSTOVALOV, L.V., red.; SATPAYEV,
K.I., red.; SEMENENKO, N.P., red.; TYZHN OV, A.V., red.;
KHRUSHCHOV, N.A., red.; SHCHEGOLEV, D.I., red.; YARMOLYUK, V.A.,
red.

[Materials on regional tectonics of the U.S.S.R.] Materialy po
regional'noi tektonike SSSR. Moskva, Izd-vo "Nedra," 1964. 193 p.

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskyy ko-
mitet. (MIRA 17:4)

BEUS, A.A.; SUBBOTIN, K.D.

Lithium, beryllium, and fluorine as indicators of deep prospecting for beryllium-bearing granitoids. Sov. geol. 7 no.5: 50-57 My '64 (MIRA 18:2)

1. Tsentral'naya laboratoriya prikladnoy geokhimii Geologo-geokhimicheskogo tresta i Institut geokhimii i kristalloghimii redkikh elementov.

BEUS, A.A.; YANISHEVSKIY, Ye.M.

Some basic trends of investigation in the field of applied
geochemistry. Sov. geol. 7 no.10:3-16 0 '64.

(MIRA 17:11)

1. Geologo-geokhimicheskiy trest.

ISHA, A.A.; KODENOV, N.A.

Using statistical distribution functions to determine the
foreign matter content in the elimination of reserves.
Izved. o kh. nedr. 30 no.11:16-20 N '64. (MIR-1344)

1. Institut mineralogii, geologii i kristallografii imeni
Semenova AN SSSR (for Kodenov).

FEKLIČEV, Bladimir Georgiyevich; BEUS, A.A., doktor geol.-miner.
nauk, otv. red.

[Beryl; morphology, composition and the structure of its
crystals] Berill; morfologiya, sostav i struktura kristallov.
Moskva, Izd-vo "Nauka," 1964. 123 p. (MIRA 17:4)

SHCHEGLOV, A.D.; BEUS, A.A.; BORODIN, L.S.; ITSIKSON, G.V.; PAVLOVSKIY,
A.B.; RUNDKVIST, D.V.; SILORENKO, Z.V.; TVALCHRELIDZE, G.A.

Conference on the problems of postmagmatic ore formation.
Sov. geol. 7 no.3:144-153 Mr '64. (MIRA 17:10)

BEUS, A.A.; OYZERMAN, M.T.

Distribution of rubidium in igneous rocks and the correlation
bond between rubidium and potassium. Geokhimiia no.11:1318-1324
N '65. (MIRA 19:1)

1. Tsentral'naya laboratoriya prikladnoy geokhimii Geologo-geokhimi-
cheskogo tresta Gosudarstvennogo geologicheskogo komiteta SSSR,
Moskva. Submitted January 13, 1965.

KUDRIN, V.S.; KUDRINA, M.A.; SHURIGA, T.N.; GINZBURG, A.I., glavnyy red.;
APEL'TSIN, F.R., zamestitel' glavnogo redaktora; CHERNYSHEVA,
L.V., red.; BEUS, A.A., red.; GREKULOVA, L.A., red.;
GRIGOR'YEV, V.M., red.; ZABOLOTNAYA, N.P., red.; MATIAS, V.V.,
red.; POKALOV, V.T., red.; RODIONOV, G.G., red.; STEPANOV, I.S.,
red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.

[Rare-metal metasomatic formations associated with subalkaline
granitoids.] Redkometal'nye metasomaticheskie obrazovaniia,
svyazannye s subshchelochnymi granitoidami. Moskva, Nedra,
1965. 145 p. (Geologiya mestorozhdenii redkikh elementov,
no.25) (MIRA 18:8)

BEUS, A.A.

Geochemistry of lithium in the processes of postigneous metasomatism. Trudy IMGRE no.7:50-60 '61.

Mechanism of the formation of idiomorphic crystals in the process of replacement. 61-64 (MIRA 16:11)

KITAYGORODSKIY, I.I.; BEUS, M.D.; ARTAMONOVA, M.V.

Use of electron microscope and X-ray analyses in studying
glass crystal materials. Dokl. AN SSSR 154 no.2:427-429
Ja'64. (MIRA 17:2)

1. Moskovskiy khimiko-tehnologicheskii institut im.
D.I. Mendeleeva. Predstavleno akademikom N.N. Semenovym.

L 27900-65 EWP(e)/EWT(m)/EWP(b) Pq-4 WH

ACCESSION NR: AP4012094

S/0020/64/154/002/0427/0429

24
23
B

AUTHORS: Kitaygorodskiy, I.I.; Beus, M.D.; Artamonova, M.V.

TITLE: Application of electron microscope and x-ray analyses methods
for investigating crystalline glass materials

SOURCE: AN SSSR. Doklady*, v. 154, no. 2, 1964, 427-429

TOPIC TAGS: glass analysis, electron microscope analysis, x-ray
analysis, crystalline glass, glass sieve, crystallization kinetics

ABSTRACT: The joint use of electron microscope analysis and x-ray
analysis gives valuable information about the structure of new
crystalline glass materials, permits the study of crystallization¹⁵
kinetics, and permits following the composition-structure-properties
relationships. In the study of glass sieves, for instance, it is
possible to identify the crystals on the microphotograph and deter-
mine their size. The function of the crystallization temperature and
of the original glass composition on the structure and phase composi-
tions of the crystalline glass can be observed. "Material 3P was
synthesized by Aspirant Z. Zhitkevich."

Card 1/2

I 27900-65

ACCESSION NR: AP4012094

ASSOCIATION: Moskovskiy 'himiko' tekhnologicheskii institut im. D. I.
Mendeleyeva (Moscow Chemical Engineering Institute)

SUBMITTED: 01Aug63

ENCL: 00

SUB CODE: MT, EC

NR REF SOV: 000

OTHER: 000

2/2
Card

TYULIN, V. A.; BEUS. T. B.

Phosphates

Effect of granulated organic and mineral fertilizers on yield of grain crops and perennial grasses. Sov. agron. 10 no. 8, 1952

Monthly List of Russian Accessions. Library of Congress, September 1952, UNCLASSIFIED

TYULIN, V.A., BEUS, T.B.

Compost

Action of organic-mineral composts. Sov. agron. 10 no. 10; Oct. 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952~~1953~~, Unclassified.

Beus, T. B.
USSR/Chemistry - Fertilizers

FD-969

Card 1/1 Pub. 50 - 12/19

Authors : Tyulin, V. A., Cand Agr Sci; Beus, T. B.

Title : Improvement of the effectiveness of phosphorite flour as a fertilizer

Periodical : Khim. prom., No 7, 432 433 (48-49), Oct-Nov 1954

Abstract : Report on the results achieved by using as fertilizers phosphorite or apatite treated with hydrochloric, sulfuric, or nitric acid. Also describe experiments on the use of phosphorite combined with moist superphosphate. In view of the good results obtained by using phosphorites partly decomposed with acid, in the manner described, recommend that this process be applied on a plant scale. Five references, all USSR, 2 since 1940.

Institution : Institute of Grain Growing of the Non-Chernozem Belt

BEUS, YA.G.

Min Railways USSR. Moscow Order of Lenin and Order of Labor Red Banner Inst. of Railroad Transport Engineers imeni I.V. Stalin. Moscow, 1956.

BEUS, YA.G.: "Investigation of the operation of low-power boilers with automatic regulation of the furnace process." Min Railways USSR. Moscow Order of Lenin and Order of Labor Red Banner Inst. of Railroad Transport Engineers imeni I.V. Stalin. Moscow, 1956.
(Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 20, 1956

BEUS, Ya. G., kand. tekhn. nauk

Automatic regulation of the firing of small capacity boilers.
Trudy KHIIT no.52:56-60 '61. (MIRA 15:10)

(Boilers—Firing) (Automatic control)

SMITH, I.

Wzrost/oznawstwo w/okienicze (Textile material knowledge), by
L. Peuth. Reported in New Books, (Nowe isiazki), No. 6, March 15, 1956.

1954

works on the side of the wing in the Polish people's army. p. 100

1954 vol. 2, no. 4, July/Aug. 1954

Poland

so. 1954 1954 vol. 2, no. 10 Oct. 1954

BEUTH, B.

BEUTH, B. The Light and Food Industry Publication about itself. p. 190.

Vol. 77, no. 5, May 1956

PRZEGLAD TECHNICZNY

PHILOSOPHY & RELIGION

Warszawa, Poland

SO: East European Accession, Vol. 6, March 1957

BEUTL, Karel

Adjustable drilling heads for jig boring machines. Stroj byr
11 no.1:17-19 '63.

1. Naradi, n.p., Praha.

BEUTLER, Hugon

Distribution of welding equipment and installations. Przegl spaw
15 no.2:41-45 F '63.

L 34701-66 EWP(v)/EWP(k)/EWP(h)/EWP(l)

BC

ACC NR: AP6025873

SOURCE CODE: GE/0062/66/006/003/0127/0141

AUTHOR: Beutscheff, Boshidar (Graduate engineer; Sofia) 55

ORG: Energetics Research Institute, Sofia, Bulgaria 6

TITLE: Contribution to the problem of exciter regulation for synchronous alternators; a simplified method for determining the optimum exciter regulation during the first cycle of rotor oscillations

SOURCE: Wissenschaftliche Zeitschrift der Elektrotechnik, v. 6, no. 3, 1966, 127-141

TOPIC TAGS: electric protective equipment, electric equipment, electric rotating equipment, automatic regulation

ABSTRACT: The article analyzes and discusses the problem of fast-acting exciter regulation in a system of synchronous machines operating in parallel in a tie-network. The optimum regulation to maintain stability during disturbances is determined by calculations based on the relation between change of excitation voltage and the rate of change of load angle. Thus a simplified method is derived for calculating the rotor oscillations during positive or negative high-speed regulation after a short-circuit. The results are applicable to regulator design for maintaining stability, i.e. to establishing the optimum duration of positive-regulator action, also the relative effects of load angle speed and acceleration upon the exciter voltage.

Orig. art. has: 5 figures and 22 formulas. /JPRS: 35,327/

SUB CODE: 09 / SUBM DATE: 22Feb65 / ORIG REF: 002 / SOV REF: 007 / OTH REF: 007

Cord 1/1 VMS

0916 1005

REUTLER-SZYMANSKA, Janina.

Treatment of peritonsillar abscess. Otolar. polska 9 no.3:
239-242 1955.

1. Z Zakladu Otolaryngologii Instytutu Doskonalenia i Specjalizacji Kadr Lekarskich Oddzial w Bydgoszczy. Kierownik:
prof. dr. J.Szymanski.

(TONSILS, abscess,
peritonsillar, ther.)

(ABSCESS,
peritonsillar, ther.)

(See also J. Szymanska)

BEUTLER-SZYMANSKA, Janina; SZYMANSKI, Jan

Effect of climatic conditions on pharyngeal adenoids in children. Otolar. polska 10 no.3-4:433-437 1956.

1. Z Zakladu Otolaryngologii I.D. i S.K.L. Oddzialu Bydgoskiego, Kierownik Zakladu: prof. dr. J. Szymanski Bydgoszcz, Dworcowa 12.

(ADENOIDS, physiology,
eff. of climate in child. (Pol))

(CLIMATE, effects,
on adenoids in child. (Pol))

PCLAND

BEUTLER-SZYMANska, Jamina, Otolaryngological Clinic (Klinika Otolaryngologiczna), AM [Akademia Medyczna, Medical Academy] in Warsaw (Director: Prof. Dr. med. Jan SZYMANSKI)

"Selected Problems in the Pathology of Salivary Glands,"

Warsaw, Polski Tygodnik Lekarski, Vol 17, No 47, 19 Nov 62, pp 1843-1846.

Abstract: Author points to our insufficient understanding of the connection between salivary gland and other diseases, and calls for a team of specialists to undertake a systematic investigation of this problem. She reviews the various types of salivary gland diseases and their connection with the main classes of diseases, such as infectious, post-operative, internal, nervous, glandular, and metabolic disturbances. Of the 15 references, one (1) is Polish, one (1) French, five (5) English, and eight (8) German.

1/1

BEUTLER-SZYMANSKA, Janina

Fibrous degeneration of bone in a patient with acromegaly.
Otolaryng. pol. 17 no.1:37-42 '63.

1. Z Kliniki Otolaryngologicznej AM w Warszawie Kierownik:
prof. dr med. J. Szymanski.
(OSTEITIS FIBROSA) (ACROMEGALY)

BEUTLER-SZYMANSKA, Janina

ey's auriculotemporal syndrome. Otolaryng. Pol. 18 no.3:121-123
'64

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Warszawie
(Kierownik: prof. dr. med. J. Szymanski).

BEUTLER-SZYMANSKA, Janina; STARZYNSKI, Stefan

A case of orbital neurilemmoma. Klin. oczna 35 no.1:71-74 '65.

1. Z Kliniki Otolaryngologicznej (Kierownik: prof. dr. med. J. Szymanski) i z Zakładu Anatomii Patologicznej Akademii Medycznej w Warszawie (p.o. Kierownika: doc. dr. med. R. Stanczyk).

BEUTLER-SZYMANSKA, Janina

Sarcoidosis of the salivary glands. Otolaryng. Pol. 19 no.3:
393-395 '65.

1. Z Kliniki Otolaryngologicznej AM w Warszawie (Kierownik:
prof. dr. med. J. Szymanski).

BEVI, Ya.L., prof.; SEMENOVA, G.I., nauchnyy sotrudnik; TSAPIKOVSKAYA,
N.G., kand.med.nauk (Khar'kov)

Hexonium as a drug used in preparing patients with pronounced
form of thyrotoxicosis for surgery. Probl.endok.i gorm. 5
no.5:61-64 S-O '59. (MIRA 13:5)

1. Iz klinicheskogo otdela (zav. - prof. M.A. Kopelovich) Ukrain-
skogo instituta eksperimental'noy endokrinologii (dir. - kand.
med.nauk S.V. Maksimov).

(HYPERTHYROIDISM surg.)

(AUTONOMIC DRUGS ther.)

BEVILACQUA, L.

Effect of photorestitution on the irradiated parts of
amoebae. Bul sc Young 7 no.1/2:13 F-Apr '62.

1. Institut za medicinska istrazivanja i medicinu rada,
Zagreb.

*

S/120/60/000/005/045/051

E073/E335

AUTHORS: Aul'khorn, V.O., Bevilogua, L.L. and Knorn, M.G.

TITLE: 2 Compressor for Working with Precious Gases

PERIODICAL: Priory i tekhnika eksperimenta, 1960, No. 5,
pp. 143 - 144

TEXT: The necessity arises of compressing rare or particularly precious gases (for instance, gases of a certain isotope composition). In such cases it is particularly desirable to have a low volume of the compressor equipment. Furthermore, hermeticity of the equipment is essential. The authors have developed a compressor that satisfies these requirements and is based on the "Aktivist" model aeroplane engine (produced by Zeiss, E. Germany) of 2.5 cc capacity. The engine was additionally fitted with a compression valve, lubricating equipment, the carburetter was modified and the shaft provided with double oil seals. The air-cooling was substituted by water-cooling and the cylinder was modified somewhat to reduce the dead volume. The inlet valve is a disc valve of the resonance type. By means of this compressor pressures of about 40 atm were achieved at 3 000 rpm and at compression to

Card 1/2

S/120/60/000/005/045/051
E073/E335

Compressor for Working with Precious Gases

10 atm the nitrogen delivery was about 250 litres/hour. When operating as a model engine the rated rpm are 15 000 to 20000.

The scavenging space does not exceed 5 cm^3 and the amount of infiltrating air does not exceed $10 \text{ cm}^3/\text{hour}$, so that its content in the gas will not exceed 5×10^{-3} mol. This high figure of compression is realised without piston rings and the performance of the compressor is not lowered if used with hydrogen. The volume efficiency is 65 to 70%. The compressor has been tested under various conditions for various gases and has proved itself for long-duration operation. This compressor will be marketed by Zeiss of E. Germany. Preliminary experiments have established the possibility of using a higher inlet pressure (1 to 2 atm) and in this case gas pressures of up to 70 atm were obtained with a delivery of 400 litres/hour. There is 1 figure.

ASSOCIATION: German Academy of Sciences, Low-temperature
Physics Laboratory, Dresden.

SUBMITTED: August 20, 1959
Card 2/2

S/120/60/000/005/046/051
E032/E314

AUTHORS: Bevilogua, L.L. and Lange, F.K.

TITLE: Liquefied Gas Level Indicator

PERIODICAL: Pribery i tekhnika eksperimenta, 1960, No. 5,
pp. 144 - 145

TEXT: The system consists of a manometer M, a capillary tube K and a tank 5 attached to it. When necessary, an additional tank P is provided (Figs. 1 and 2). The whole system, which is sealed off, is filled with the appropriate gas. When the tank 5 is placed in the liquid so that the liquid level is at A (Fig. 1) the gas in the system condenses, while when the liquid level falls down to B the condensed gas inside the system is heated through the capillary tube and rapidly evaporates, thus re-establishing the original pressure. This is due to the fact that only when the tank 5 is in contact with the liquid is the heat transfer sufficiently large to cause the condensation. Small changes in the liquid level give rise to large changes in the pressure in the system. The second version of the instrument is shown in Fig. 2 and does not include the lower tank. In this case
Card 1/2

✓

S/120/60/000/005/046/051
EO32/E314

Liquefied Gas Level Indicator

the condensation takes place in the tube K, which is in contact with the liquid. In this case, the amount of condensed gas depends on the external level. Under suitable conditions (appropriate thermal conductivity of the material of the tube) the liquid levels inside and outside the capillary are the same. Thus, the amount of condensed gas in the capillary is proportional to the length h of the capillary in the liquid. Perfect-gas laws can then be used to derive an expression for the residual gas pressure in the system as a function of h . The instrument can be so designed that the pressure depends linearly on h . The device is subject to German patent No. WP 42 e/59221. There are 2 figures.

ASSOCIATION: German Academy of Sciences, Low-temperature
Physics Laboratory, Dresden

SUBMITTED: August 20, 1959

Card 2/2

BEVKOVICH, G. A.

USSR.

Organic isocyanates. A. A. Blagovestova and G. A. Bevkovich. *Uspekhi Khim.* 24, 63-110 (1955).--Review of synthesis and reactions of org. isocyanates with 265 references, through 1953. G. M. Kosolapoff

MAKEYEV, A.S.; BEVSUSHENKO, V.S.; BURENKOV, N.A.

Vibration in the diffusion process. Sakh.prom. 30 no.8:35-38
Ag. '56. (MIRA 9:11)

1. 1-y Gorodokskiy sakharney zavod.
(Sugar industry) (Vibrators)

SOZANSKIY, S.G.; BEVZ, A.N.

How we obtained an increase in cement output. TSement 27 no.3:
23-24 My-Je '61. (MIRA 14:7)

(Cement plants--Technological innovations)

SHVYDKIY, M.Ya.; GRINER, M.K.; BEVZ, A.N.; MEFODOVSKIY, V.Ya.

Make fuller use of the capacity of rotary kilns. TSement 28 no.6:
3-5 N-D '62. (MIRA 15:12)

1. Yuzhgiptsement i Nikolayevskiy tsementnyy zavod.
(Kilns, Rotary)

CHEREVKO, G.P., inzh.; BEVZ, A.N., inzh.; FUDENKO, V.S., inzh.

Technology of production is improving. TSement 30 no.3:18-19
My-Je '64. (MIRA 17:11)

1. Bakhchisarayskiy kombinat stroitel'nykh materialov.

Bevz G.P.

BEVZ, G.P. (Kiyev)

Remarks on the article of P.V.Stratilatov "Exercises in algebra
with material from theoretical arithmetic." Mat.v shkole
no.6:85-86 N-D '57. (MIRA 10:11)
(Algebra--Study and teaching) (Stratilatov, P.V.)

BEVZ, G.P.(Kiyev); DEYNEGA, A.V.(Kiyev); OSIPIAN, I.N.(Krasnodarskiy kray)

"Methods of teaching mathematics." Part 2, by S.E.Liapina and
others. Reviewed by G.P.Bevz, A.V.Deinaga, I.N.Osipian. Mat. v
shkole no. 4:78-85 J1-Ag '58. (MIRA 11:7)
(Mathematics)
(Liapina, S.E.)

BEVZ, G.P. (Krivoy Rog)

Some problems with "superfluous" assigned numerical data. Mat. v
shkole no.6:65-66 N-D '59. (MIRA 13:3)
(Mathematics--Problems, exercises, etc.)

MIKHAYLOV, A.V. (Chitinskaya obl.); BEVZ, G.P. (Kiyev); GISIN, B.V.,
(Alma-Ata); SANDLER, TS.M (Sumy); AVERBUKH, M.P. (Leninabad);
SHNIPOR, B.N. (Vinnitsa); ZAKHAROV, V.L. (Minsk); YASINOVYY,
E.A. (Kuybyshev); VOSKRESENSKIY, S.N. (Kuybyshev)

Problems. Mat.v shkole no.4:94-95 J1-Ag '59.
(MIRA 12:11)
(Geometry--Problems, exercises, etc.)

BEVZ, G. P., Cand Ped Sci -- (diss) "Demonstrations in school algebra courses." Kiev, 1960. 15 pp; (Kiev State Pedagogical Inst im A. M. Gor'kiy); 200 copies; price not given; (KL, 31-60, 144)

BEVZ, G.P. (Krivoy Rog)

One inequality. Mat.v shkole no.1:63 Ja-F '60. (MIRA 13:5)
(Inequalities (Mathematics))

SHVETSOV, Konstantin Ivanovich; BEVE, Grigoriy Petrovich; KOENHAR',
V.M., red.; CHENAKAL, Ye.A., red.; KOSNITSEN, L.M., red.

[Textbook on elementary mathematics; arithmetic; algebra]
Spravochnik po elementarnoi matematike; arifmetika, algebra.
Kiev, Naukova dumka, 1965. 414 p. (MIRA 18:9)

BLU2, J

84-5-22/42

AUTHOR: Bevz, I., Political Instructor (Uzbek Territorial Administration)
TITLE: Lectures and Courses (Lektsii, Doklady)
PERIODICAL: Grazhdanskaya Aviatsiya, 1957, Nr 5, p. 30 (USSR)
ABSTRACT: The Uzbek Territorial Administration employs 52 lecturers and instructors, among them, Com. Mostovskiy, an engineer, lectures on jets; comrade Rubin, on instrument flying; com. Ovchinnikov, on flight economy. Last year, 433 lectures were held within the Uzbek Territorial Administration. In the political instruction department of the Tashkent Airport, moving pictures supplement lectures. Comrade Krasnoborodkin reported on flight safety, comrade Kaloshin on flights in storms. A department of technical propaganda of the air terminal (not specified) organized a series of lectures on foreign experience. Recently, a lecture on servicing the Viscount aircraft was delivered in the LERM by comrade Pavlovskiy.
AVAILABLE: Library of Congress
Card: 1/1

U

ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.;
~~BEVZ, N.D.; BEREZOVSKIY, A.I.; GENERALOV, G.S.;~~
DOROSHENKO, V.I.; YESHCHENKO, A.A.; ZAPARA, S.A.; KALINICHENKO, V.F.;
KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Ye.;
LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, Yu.S.; OVODENKO,
B.K.; OKSANICH, I.F.; PANOV, V.A.; POVZNER, Z.B.; PODORVANOV, A.Z.;
POLISHCHUK, A.K.; POLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.;
SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.;
TERESHCHENKO, A.A.; TITOV, O.S.; FEDIN, A.F.; KHOMYAKOV, N.P.;
SHEYKO, V.G.; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.

Practice of construction and exploitation of open pits of Krivoy
Rog Basin mining and ore dressing combines. Gor. zhur. no.6:
8-56 Je '63. (MIRA 16:7)
(Krivoy Rog Basin--Strip mining)

BEVZ, H. S.

"The Structure of the Erosion Relief of the Chernaya Kalitva Basin." Cand
Geog Sci, Moscow State Pedagogical Inst imeni V. I. Lenin, 6 Dec 54. (VM, 24 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

BEVZ, N.S.

Role of ground waters in the erosion process depending on the geological and geomorphological conditions in the western part of the Don Valley. Izv.Vor.otd.Geog.ob-va no.3:117-123 '61.

(MIRA 15:11)

(Don Valley--Runoff)

BEVZ, N.S.

Genetic principle of isolating the complexes of relief forms of
the East European Plain. Nauch. zap. Vor. otd. Geog. ob-va, 72-80
'63. (MIRA 17:9)

MAKSIMOV, S.Z.; BEVZ, N.S.

Adam Adamovich Virskii; on his 80th birthday. Izv.Vses.geog.ob-va
95 no.3:266-268 My-Je '63. (MIRA 16:8)
(Virskii, Adam Adamovich, 1882-)

BEVZ, Nikolay Sidorovich; PERFIL'YEV, Andrey Il'ich; CHERNYSHOVA,
Yelena Vladimirovna [deceased]; CHISTOKLETOV, Grigoriy
Fedorovich; VOROTNIKOVA, R.V., red.

[Geography of Voronezh Province; textbook for grade 8]
Geografiia Voronezhskoi oblasti; uchebnoe posobie dlia
8-kh klassov. 1zd.2., ispr. i dop. Voronezh, TSentral'no-
chernozemnoe knizhnoe izd-vo, 1965. 81 p. (MIRA 19:1)

BWV, T.B.

Revised 10/10/1967

Investigating the assembly and use of underground mine
hoisting equipment. (bor. descr. and. KGRS no. 234111-111'67
(MIRA 1788)

BEVZ, T.D., gornyy inzhener

Lowering aerodynamic resistance in mine shafts. Sbor. nauch.
trud. KGRI no. 21:105-110 '63. (MIRA 17:7)

БВМ, Т. 2, 1977 г.

Using plastic for lowering the ventilation resistance in
mine workings. Sbornik ch. trud. KGBI no. 20015-198 (60).
(1977, 17:7)

BEVZ, T.D., inzh.

Equivalent openings of mine ventilations systems having considerable suction and leakage. Izv.vys.ucheb.zav.;gor.zhur. 7 no.6:64-66 '64.
(MIRA 17:12)

1. Krivorozhskiy gornorudnyy institut. Rekomandovana kafedroy ventilyatsii i tekhniki bezopasnosti.

BEVZA, G.G.

Summarizing the materials on surface water resources of Moldavia.
Okhr. prir. Mold. no.3:19-22 '65. (MIRA 18:10)

BEVZA. G.G.; VERINA, V.N.; S'NYAVSKIY, P.V.

Unusually strong squall in Moldavia. Okhr. priir. Mold. no.3:51-59
'65. (MIRA 18:10)

ACCESSION NR: AP4028542

S/0191/64/000/004/0003/0006

AUTHORS: Nechitaylo, N.A.; Sanin, P.I.; Bevsa, T.I.; Pokatilo, N.A.

TITLE: Stability of poly-3-methylbutene-1

SOURCE: Plasticheskiye massy*, no. 4, 1964, 3-6

TOPIC TAGS: polymethylbutene, stability, differential thermal analysis, methylbutene polymerization, thermogram, exothermic effect, endothermic effect, amorphous, crystalline, isotactic polymer, stabilizer, polymer oxidation

ABSTRACT: The stability to atmospheric oxidation of poly-3-methylbutene-1 was studied by differential thermal analysis. The polymer was produced by polymerization of 3-methylbutene-1 on the $Al(C_2H_5)_3:TiCl_4$ system (1.5:1). The thermogram of the polymer sample in air shows a series of exothermic effects above 120°C and an endothermic peak at 260°C. In the thermogram in argon the exothermic effects are absent but there is a series of endothermic effects, associated with changes in the structure of the polymer macromolecules.

Card 1/2

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ACCESSION NR: AP4028542

Comparison of the amorphous, slightly crystalline and crystalline or isotactic fractions (structures confirmed by x-rays) of the polymer shows the highly crystalline material is oxidized most on heating. The effect of the addition of various amounts of ionol (2,6-di-tert. butyl-4-methylphenol) was studied, and it was found that the intensity of the exothermic effects was reduced with increasing amounts of stabilizer, up to 2% ionol when there is almost no oxidation of the polymer. Orig. art. has: 5 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: CH

NR REF SOV: 002

OTHER: 003

Cord

2/2

L 13813-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP4047684

S/0204/94/004/005/0727/0734

AUTHOR: Bevza, T. I., Pokatilo, N. A., Topchiyev, A.V. (deceased) B

TITLE: Polymerization of 3-methyl-1-butene in the presence of complex or gano-metallic catalysts

SOURCE: Neftekhimiya, v. 4, no. 6, 1964, 727-734

TOPIC TAGS: methylbutene, dehydration catalyst, polymerization catalyst, isopentyl alcohol, fractionation polymerization, polymer physical property, olefin polymorization, heteroorganic catalyst

ABSTRACT: The preparation of 3-methyl-1-butene by dehydration of isopentyl alcohol (b.p. 128-132C, $n_D^{20} = 1.4080$, $d_4^{20} = 0.811$) is described and the conditions of polymerization and fractionation are given. The intrinsic viscosity, melting point and glass transition temperature were determined for 3-methyl-1-butene polymers. For crystalline polymers the glass temperature is important because the valuable complex of properties determined by the nature of the material appears only in the temperature range between the glass transition and melting points. The polymerization was influenced considerably by the molar ratio of the catalyst components. Thus, the highest yield of solid product was obtained at a $Al(C_2H_5)_3: TiCl_4$ ratio of 2 at 110C in 10 hours and a catalyst

Card 1/2

L 13813-65

ACCESSION NR: AP4047684

concentration of 5% based on the monomer. The content of isotactic portion in the polymer was relatively independent of the temperature of polymerization. The resulting polymer has a M. P. of 230-240C, 80% isotactic portion, and an intrinsic viscosity of 0.7. The glass transition temperature is 60C according to the thermomechanical curve. The solubility data obtained in a stream of pure argon are tabulated (in benzene, toluene, xylene, decalin, tetralin, ditolylmethane, dicumylmethane, and kerosene). The structure assumed for the polymers was confirmed by infrared spectra. "The authors thank B. A. Krentsel' for his assistance, M. M. Kusakov and M. V. Shishkina for taking the infrared spectra and I. Tsarevskaya for the determination of the thermomechanical properties of the polymers; M. I. Leonova and M. N. Shvarts also took part in the work." Orig. art. has: 6 figures and 3 tables.

ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva, AN SSSR
(Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 20Jun63

ENCL: 00

SUB CODE: OC

NO REF SOV: 003

OTHER: 010

Card 2/2

ACC NR: AP7006167 (N) SOURCE CODE: UR/0115/67/000/001/0042/0044

AUTHOR: Logvinenko, S.P.; Bevza, Yu.G.

ORG: none

TITLE: A unit for measuring low temperatures operating in combination with a semiconductor transducer

SOURCE: Izmeritel'naya tekhnika, no. 1, 1967, 42-44

TOPIC TAGS: resistance thermometer, temperature gage, temperature transducer, *LOW TEMPERATURE*

ABSTRACT:

A device has been developed for remote measurement of low temperatures under conditions of industrial noise. It is designed to operate in combination with a semiconductor thermometer in which the relationship between temperature and resistance has an exponential character. The measuring circuits are based on the use of a semiconductor transducer in the master frequency

Card 1/2

UDC: 536.531

ACC NR: AP7006167

circuit of a harmonic RC oscillator. The resistance thermometer is made of a zinc-and gallium-doped germanium crystal measuring 0.15 x 0.15 x 3 mm with two fused indium contacts. The crystal is enclosed in a copper capsule 18 mm long and 3 mm in diameter. The thermometer had a time constant of 0.15 sec at -20.4°K. The basic measurement error of the unit is caused by the frequency instability of the RC oscillator, by changes in the capacitance of the input cable, and by the amplitude instability of pulses arriving at the integrating circuit. Maximum measurement error is estimated at 0.2 deg. Orig. art. has: 4 figures. [JR]

SUB CODE: 14/ SUBM DATE: 30Sep65/ ORIG REF: 002/ OTH REF: 002/
ATD PRESS: 5116

Card 2/2

TUROVSKIY, S.D.; BEVZA, Yu.V.; SHENDRIK, A.V.

Rapid method for fractionation of slimes using heavy liquids. *Biul. nauch.-tekh.inform.MMS* no.1:71 '60. (MIRA 15:5)

1. Institut geologii AN Kirgizskoy SSR.
(Mineralogy)

BEVZENKO, N.Ye.; NEVEROVICH, Ye.M.; NIKOLAYEV, S.S.; PETROV, P.A.

Prospects for finding the skarntype original gold deposits in
Western Siberia. Trudy SNIGGIMS no.6:72-74 '61. (MIRA 15:7)
(Siberia, Western--Gold ores)

BEVZENKO, P. Ye.

USSR/ Cosmichemistry. Geochemistry. Hydrochemistry

D.

Abs Jour : Referat Zhur- Khimiya, No 4, 1957, 11532

Author : Bevzenko P. Ye.

Inst : Far East Polytechnical Institute

Title : Concerning Ferruginous Chlorites from Sedimentary Iron-Ore Beds of Siberia

Orig Pub : Tr. Dal'nvest. politekhn. in-ta, 1954, No 43, 81-91

Abstract : Work has been carried out on identification of minerals of the leptochlorite group from sedimentary iron ores of Precambrian(?) Period. On the basis of field observations, microscopical, chemical and thermal analyses it was ascertained that the chlorites under study are characterized by high content in FeO (21.27-33.38%) to the detriment of Mg, Mn and Ca. Two characteristic varieties have thus become apparent: 1) Thuringitic of approximate formula

$3\text{SiO}_2 \cdot 2(\text{Al, Fe})_2\text{O}_3 \cdot 4\text{FeO} \cdot 3\text{H}_2\text{O}$; $N = 1.65-1.68$; deep green in color and 2)

Shamositic of formula $2\text{SiO}_2 \cdot \text{Al}_2\text{O}_3 \cdot 4\text{FeO} \cdot 3\text{H}_2\text{O}$; $N = 1.60-1.64$; pale

1/2

USSR/ Cosmochemistry. Geochemistry. Hydrochemistry

D.

Abs Jou : Referat Zhur - Khimiya, No 4, 1957, 11532

green. A reconstruction is made of the geochemical environment of the formation of leptochlorites.

15-57-1-580

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,
p 93 (USSR)

AUTHOR: Bevzenko, P. Ye.

TITLE: Diagnostic Features in the Clay Products From the
Weathering of Leptochlorites (K diagnostike glinistykh
produktov vyvetrivaniya leptokhloritov)

PERIODICAL: Tr. Dal'nevostochn. politekhn. in-ta, 1954, Nr 43,
pp 93-95.

ABSTRACT: The clay minerals from the Siberian leptochlorite-
hematite ores were formed during weathering of leptochlorites. Within the ore, less thoroughly affected by weathering, all transitions are observed from typical green leptochlorite through pale green material to an anisotropic clay mineral. Scales of the latter mineral have the following properties: $n_g = 1.576 \pm 0.502$ and $n_p = 1.562 \pm 0.502$. The hardness is 1.5 to 2.0 and the specific gravity is 2.51. The chemical composition (in percent) is SiO_2 46.27, TiO_2 none,

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. Diagnostic Features in the Clay Products From the (Cont.) 15-57-1-580

Al_2O_3 38.84, Fe_2O_3 2.18, MnO none, CaO 0.47, MgO 0.18, H_2O^+ 11.30, H_2O^- 0.9; total 100.14. The formula is $2.02 \text{SiO}_2 \cdot \text{Al}_2\text{O}_3 \cdot 0.035 (\text{CaMg})\text{O} \cdot 1.64 \text{H}_2\text{O}$. This formula is distinguished from the theoretical formula for kaolinite by an insufficiency of water. The thermal curve, in addition to an endothermic effect at 500° to 580° and an exothermic effect at 960° characteristic of kaolinite, shows other effects at 700° to 770° and at 800° to 850° which indicate a genetic relationship of the mineral leptochlorites and hydromicas. The author believes that the investigated clay mineral may be a hydromica similar to kaolinite in composition.

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Age of granitoids of the Bureya Massif. Soob.DVPAN SSSR no.10:230-
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(Bureya Valley--Granite)